

WE CLAIM:

1. A method of managing uplink radio resources in a CDMA telecommunications system comprising a primary base transceiver station for providing a primary cell and at least one secondary base transceiver station for providing at least one secondary cell, the method comprising:

determining an interference level into the primary base transceiver station;

determining a contribution of secondary cell connections to the interference level;

computing a proportionality factor for adjusting a reference interference level relative to the interference level, the proportionality factor being proportional to the contribution of the secondary cell connections to the interference level; and

adjusting the reference interference level relative to the interference level by using the proportionality factor.

2. The method of claim 1, further including computing a proportionality factor proportional to a coupling between the primary cell and the at least one secondary cell.

3. The method of claim 1, further including controlling the uplink radio resources based on the interference level and the reference interference level.

4. The method of claim 1, further including basing a characterizing curve, which characterizes relation between a cell characteristic and an interference level, on the reference interference level.

5. The method of claim 1, further including determining a contribution of primary cell connections to the interference level; and

determining the contribution of the secondary cell connections to the interference level by using the interference level and the contribution of the primary cell connections to the interference level.

6. The method of claim 1, further including adjusting the reference interference level by shifting the reference interference level relative to the interference level by the amount of the proportionality factor.

7. The method of claim 1, further including repeating the method for a predetermined period of time.

8. The method of claim 1, further including repeating the method at a predetermined rate.

9. An arrangement for managing uplink radio resources in a CDMA telecommunications system comprising a primary base transceiver station for providing a primary cell and at least one secondary base transceiver station for providing at least one secondary cell, the arrangement comprising:

first determining means for determining an interference level into the primary base transceiver station;

second determining means for determining a contribution of secondary cell connections to the interference level;

first computing means for computing a proportionality factor for adjusting a reference interference level relative to the interference level, the proportionality factor being proportional to the contribution of the secondary cell connections to the interference level; and

first adjusting means for adjusting the reference interference level relative to the interference level by using the proportionality factor.

10. The arrangement of claim 9, further including second computing means for computing a proportionality factor proportional to a coupling between the primary cell and the at least one secondary cell.

11. The arrangement of claim 9, further including controlling means for controlling the uplink radio resources based on the interference level and the reference interference level.

12. The arrangement of claim 9, further including basing means for basing a characterizing curve, which characterizes relation between a cell characteristic and an interference level, on the reference interference level.

13. The arrangement of claim 9, further including:

third determining means for determining a contribution of primary cell connections to the interference level; and

fourth determining means for determining the contribution of the secondary cell connections to the interference level by using the interference level and the contribution of the primary cell connections to the interference level.

14. The arrangement of claim 9, further including second adjusting means for adjusting the reference interference level by shifting the reference interference level relative to the interference level by the amount of the proportionality factor.

15. The arrangement of claim 9, further including providing means for providing time control for the arrangement.

16. An arrangement for managing uplink radio resources in a CDMA telecommunications system comprising a primary base transceiver station for providing a primary cell and at least one secondary base transceiver station for providing at least one secondary cell, the arrangement comprising:

- a first sensor for determining an interference level into the primary base transceiver station;

- a second sensor for determining means for determining a contribution of secondary cell connections to the interference level;

- a first processor for computing a proportionality factor for adjusting a reference interference level relative to the interference level, the proportionality factor being proportional to the contribution of the secondary cell connections to the interference level; and

- a first tuner for adjusting the reference interference level relative to the interference level by using the proportionality factor.